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(Buildings Geo-Tech & Highway Materials Testing Laboratory)
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JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/DM/16/2020-2021 Date:29.07.2020

TEST REPORT ON CEMENT

Client : **Executive Engineer, RR Nagar** Division,BBMP, Bangalore.
Agency : **Sri.Damodar Manjunath,** Contractor, Bangalore.
Name of Work :Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore

Sample ID: :Cement (Ultratech 53 grade OPC)
Sample Supplied by: :AGENCY
Date of Manufacture: :June
Date of Testing :27.07.2020 to 29.07.2020

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	355 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50%	-

Asst. Executive Engineer
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Authorised Signatory

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Job No.: CQCE/BBMP/DM/16/2020-2021

Date 29.07.2020

TEST REPORT ON FINE AGGREGATES (SAND)

Client : Executive Engineer, RR Nagar Division,BBMP, Bangalore.
Agency : Sri.Damodar Manjunath, Contractor, Bangalore.
Name of Work :Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore

Date of Testing 29.07.2020
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : Sand

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	82	8.20	8.20	91.8	90-100
2.36	115	11.50	19.70	80.3	75-100
1.18	197	19.70	39.40	60.6	55-90
600 Micron	246	24.60	64.00	36.0	35-59
300 Micron	182	18.20	82.20	17.8	8-30
150 Micron	163	16.30	98.50	1.5	0-10

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Job No.: CQCE/BBMP/DM/16/2020-2021

Date 29.07.2020

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer, RR Nagar** Division,BBMP, Bangalore.
Agency : **Sri.Damodar Manjunath,** Contractor, Bangalore.
Name of Work :Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore
Date of Testing 29.07.2020
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	219	1.46	1.46	98.54	95-100
20	8563	57.09	58.55	41.45	30-70
10	3215	21.43	79.98	20.02	10-35
4.75	2486	16.57	96.55	3.45	0-5

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TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer, RR Nagar** Division,BBMP, Bangalore.
Agency : **Sri.Damodar Manjunath,** Contractor, Bangalore.
Name of Work :Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore
Date of Testing 29.07.2020
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	205	4.1	4.1	95.9	95-100
10	2789	55.8	59.9	40.1	25-55
4.75	1796	35.9	95.8	4.2	0-10

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Job No.: CQCE/BBMP/DM/16/2020-2021

Date 31.07.2020

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer, RR Nagar** Division,BBMP,Bangalore.
Agency : **Sri.Damodar Manjunath,** Contractor, Bangalore.
Name of Work :Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01),BBMP, Bangalore
Steel Dia/Length: 8mm,10mm" TMT"
Reference to BIS codes: IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification
IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature
Date of test: 31.07.2020

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.396	512	618	1.21	14
2	TMT	10	0.619	529	627	1.19	18

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Job No.: CQCE/BBMP/DM/16/2020-2021

Date: 13.08.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client Agency : **Executive Engineer,** RR Nagar Division, Bangalore.

Name of the work : **Sri.Damodar Manjunath,** Contractor, Bangalore.
: Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.08.2020	13.08.2020	8.198	296.8	13.19
2	06.08.2020	13.08.2020	8.205	287.1	12.76
3	06.08.2020	13.08.2020	8.148	263.9	11.73

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	
Agency	**: Executive Engineer,** RR Nagar Division, Bangalore.
Name of the work	**: Sri.Damodar Manjunath,** Contractor, Bangalore.
	: Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01)
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.08.2020	13.08.2020	8.032	279.6	12.43
2	06.08.2020	13.08.2020	8.174	285.3	12.68
3	06.08.2020	13.08.2020	8.156	280.1	12.45

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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.08.2020	13.08.2020	8.174	264.8	11.77
2	06.08.2020	13.08.2020	8.036	281.3	12.50
3	06.08.2020	13.08.2020	8.193	279.6	12.43

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Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{15}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.08.2020	13.08.2020	8.032	282.9	12.57
2	06.08.2020	13.08.2020	8.179	297.3	13.21
3	06.08.2020	13.08.2020	8.156	273.1	12.14

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Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.08.2020	13.08.2020	8.032	259.6	11.54
2	06.08.2020	13.08.2020	8.155	271.8	12.08
3	06.08.2020	13.08.2020	8.096	282.3	12.55

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